IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1.   (currently amended) A recording apparatus for compression-encoding a digital video signal, generating a bit stream having a hierarchical structure composed of a plurality of hierarchical levels, and recording the bit stream to a record medium, comprising:

encoding means for intra-frame encoding all the digital video signal so as to compress the digital video signal;

adding means for adding a header of the highest hierarchical level to the bit stream of each frame; ~~and~~

interpolating means for interpolating the header of the highest hierarchical level; and

recording means for recording the bit stream to which the header of the highest hierarchical level has been added to the record medium.

2.   (canceled)

3.   (currently amended) The recording apparatus as set forth in ~~claim 2~~ claim 1, wherein said interpolating means comprises:

determining means for determining whether the header of the highest hierarchical level is absent or an inconsistency of encoding syntax takes place; and

storing means for storing the latest header of the highest hierarchical level, and

wherein when the determined result of said determining means represents that, the

header of the highest hierarchical level is absent or abnormal, said adding means adds the latest

header of the highest hierarchical level stored in said storing means to the bit stream of each

frame.

4.   (currently amended) The recording apparatus as set forth in ~~claim 2~~claim 1,

wherein said interpolating means comprises:

determining means for determining whether the header of the highest hierarchical

level is absent or abnormal; and

storing means for storing a prepared header of the highest hierarchical level, and

wherein when the determined result of said determining means represents that the header of the

highest hierarchical level is absent or an inconsistent of encoding syntax takes place, said adding

means adds the prepared header of the highest hierarchical level stored in said storing means to

he bit stream of each frame.

5.   (currently amended) A recording apparatus for compression-encoding a digital

video signal, generating a bit stream having a hierarchical structure composed of a plurality of

hierarchical levels and recording the bit stream to a record medium, comprising:

encoding means for intra-frame encoding all the digital video signal so as to

compress the digital video signal;

adding means for adding a quantizing matrix to the bit stream of each frame;

<u>interpolating means for interpolating the header of the highest hierarchical level;</u>

and

recording means for recording the bit stream to which the quantizing matrix has

been added to the record medium.

6.   (canceled)

7.   (currently amended) The recording apparatus as set forth in ~~claim 6~~claim 5,

wherein said interpolating means comprises:

determining means for determining whether the quantizing matrix is absent or

abnormal; and

storing means for storing the latest quantizing matrix, and

wherein when the determined result of said determining means represents that the quantizing

matrix is absent or abnormal, said adding means adds the latest quantizing matrix stored n said

storing means to the bit stream of each frame.

8.   (currently amended) The recording apparatus as set forth in ~~claim 6~~ claim 5,

wherein said interpolating means comprises:

determining means for determining whether the quantizing matrix is absent or

abnormal; and

storing means for storing a prepared quantizing matrix, and

wherein when the determined result of said determining means represents that the

quantizing matrix is absent or abnormal, said adding means adds the prepared quantizing matrix

stored in said storing means to the bit stream of each frame.

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9.   (currently amended) A recording method for compression-encoding a digital

video signal, generating bit stream having a hierarchical structure composed o a plurality of

hierarchical levels, and recording the bit stream to a record medium, comprising the steps of:

intra-frame encoding al the digital video signal so as to compress the digital video

signal;

adding a header of the highest hierarchical level to the bit stream of each frame;

interpolating the header of the highest hierarchical level;

and

recording the bit stream to which the header of the highest hierarchical level has

been added to the record medium.

10.   (currently amended) A recording method for compression-encoding a digital

video signal,   generating bit stream having a hierarchical structure composed of a plurality of

hierarchical levels, and recording the bit stream to a record medium, comprising the steps of:

intra-frame encoding al the digital video signal so as to compress the digital video

signal;

adding a quantizing matrix to the bit stream of each frame;

interpolating means for interpolating the header of the highest hierarchical level;

and

recording the bit stream, to which the quantizing matrix has been added to the

record medium.

11.   (new) A recording apparatus for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels, and recording the bit stream to a record medium, comprising:

an encoding unit adapted to intra-frame encode the digital video signal to

compress the digital video signal;

an adding unit adapted to add a header of the highest hierarchical level to the bit

stream of each frame;

an interpolating unit adapted to interpolate the header of the highest hierarchical

level; and

a recording unit adapted to record the bit stream to which the header of the

highest hierarchical level has been added to the record medium.

12.   (new) A recording apparatus for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels and recording the bit stream to a record medium, comprising:

an encoding unit adapted to intra-frame encode the digital video signal to

compress the digital video signal;

an adding unit adapted to add a quantizing matrix to the bit stream of each frame;

an interpolating unit adapted to interpolate the header of the highest hierarchical

level; and

a recording unit adapted to record the bit stream to which the quantizing matrix

has been added to the record medium.

13.   (new) A reproducing apparatus for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels, comprising:

encoding means for intra-frame encoding all the digital video signal so as to

compress the digital video signal;

adding means for adding a header of the highest hierarchical level to the bit

stream of each frame;

interpolating means for interpolating the header of the highest hierarchical level;

and

reproducing means for reproducing the bit stream to which the header of the

highest hierarchical level has been added.

14.   (new) A reproducing method for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels comprising:

encoding the digital video signal to compress the digital video signal;

adding a header of the highest hierarchical level to the bit stream of each frame;

interpolating the header of the highest hierarchical level; and

reproducing the bit stream to which the header of the highest hierarchical level

has been added.

15.   (new) A reproducing method for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels comprising:

encoding the digital video signal to compress the digital video signal;

adding a quantizing matrix to the bit stream of each frame;

interpolating the header of the highest hierarchical level; and

reproducing the bit stream to which the quantizing matrix has been added.

16.   (new) A reproducing apparatus for compression-encoding a digital video signal,

generating a bit stream having a hierarchical structure composed of a plurality of hierarchical

levels comprising:

encoding means for intra-frame encoding the digital video signal to compress the

digital video signal;

adding means for adding a quantizing matrix to the bit stream of each frame;

interpolating means for interpolating the header of the highest hierarchical level;

and

reproducing means for reproducing the bit stream to which the quantizing matrix

has been added.

17.   (new) The recording apparatus according to claim 1, wherein the record medium

comprises a tape-shaped record medium.

18.   (new) The recording apparatus according to claim 5, wherein the record medium

comprises a tape-shaped record medium.

AMENDMENTS TO THE DRAWINGS

The attached sheet of drawings includes changes to Figure 1. This sheet, which

includes Figures 1A-1E, replaces the original sheet including Figures 1A-1E. The legend

"Related Art" has been added.

Attachment: Replacement Sheet

Annotated Sheet Showing Changes